(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 1 333 498 A3

(12) EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
04.05.2005 Bulletin 2005/18

(43) Date of publication A2:
06.08.2003 Bulletin 2003/32

(21) Application number: **02021760.0**

(22) Date of filing: **25.09.2002**

(51) Int Cl.[7]: **H01L 27/146**, H01L 27/148

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: **31.01.2002 US 62695**

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(54) **Solid state image sensor array for correcting curvilinear distortion of a camera lens system and method for fabricating the image sensor array**

(57) A solid state image sensor array (300; 500; 900) for correcting curvilinear distortion and method for fabricating the image sensor array utilizes straight line segments (606, 608) that approximate the curvature of the curvilinear distortion to define structures of the image sensor array. The use of these straight line segments results in photosensitive elements (302; 502; 902A, 902B, 902C, 902D) that are distributed in a non-uniform pattem to compensate for the curvilinear distortion, which may be barrel or pincushion distortion. In addition, the use of straight line segments increases the efficiency of the photosensitive elements by maximizing the surface area of the photosensitive elements. Furthermore, since the structures of the image sensor array are defined by the straight line segments, the design of the image sensor array is suitable for conventional high volume fabrication process.

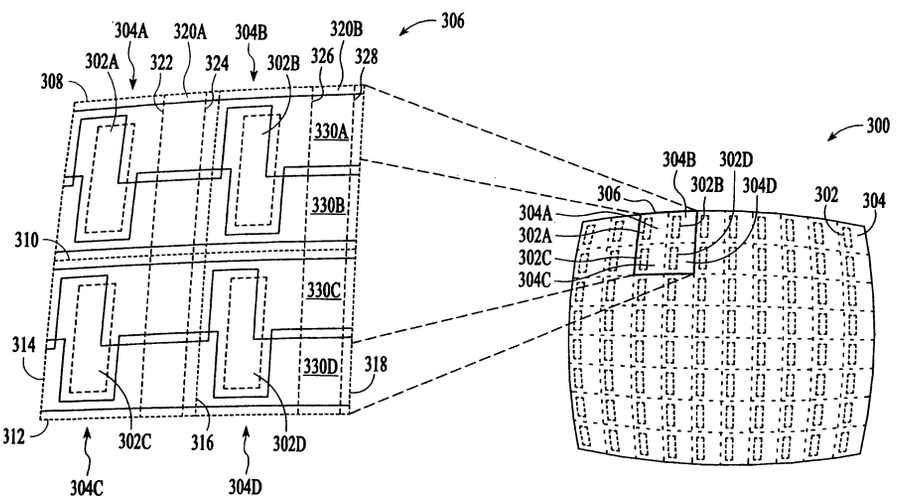

FIG. 3

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EUROPEAN SEARCH REPORT

Application Number
EP 02 02 1760

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The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	14 March 2005	Boero, M

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